

Intel® 815E Scalable Performance Board Development Kit

Product Highlights

Evaluation Board

- Scalable performance supporting processors in a 370-pin Flip-Chip Pin Grid Array (FC-PGA) or (FC-PGA2) package from the Intel® Celeron® processor at 566 MHz to the Pentium® III processor at 1.26 GHz and beyond with processor side bus (PSB) speeds of 66, 100, or 133 MHz.
- Populated with a Pentium III processor at 1.26 GHz with 512K on-die L2 full speed cache, FC-PGA2 package with 133 MHz PSB.
- Utilizes Intel Hub Architecture which allows increased I/O bus bandwidth providing better concurrency for next-generation applied computing applications
- Scalable graphics utilizing Intel Graphics Technology, use of a dedicated display cache (Graphics Performance Accelerator), or use of a separate AGP card
- Utilizes Intel Graphics Technology, an integrated graphics platform which provides more stability, higher quality graphics and a reduced OEM bill of materials cost
- Populated with 128 MB SDRAM, expandable to 512 MB SDRAM
- Support for ATA100
- Schematics, technical documentation and bill of materials provided in User's Manual

Available Hardware

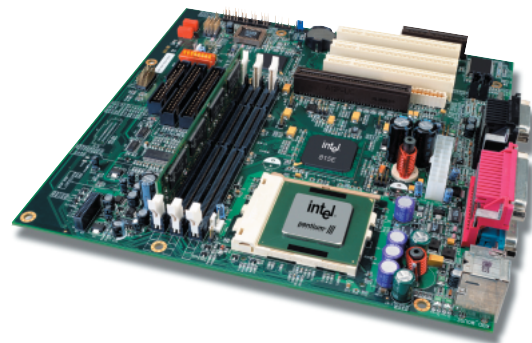
- 10 GB ATA100 hard disk drive pre-loaded with an image of LynuxWorks® Blue Cat® Linux (included)
- Processor thermal solution attached
- 10/100 Ethernet network adapter (included)
- Chrontel DVO card (sold separately)

Board Peripheral Features

- Super I/O for legacy peripheral support
- Support for up to 4 IDE ATA100 drives. Backwards compatible with legacy drives
- 4 USB 1.0 ports
- AC'97 for audio and modem support

User Accessible On-Board Connectors

- Two serial RS-232 ports; COM1, COM2
- PS/2 keyboard and PS/2 mouse (6-pin mini-DIN)



- 1 AGP slot
- ATX power supply connector
- One EPP/ECP parallel port (DSUB 25)
- 2 standard PCI expansion slots
- 2 USB connectors
- 3 SDRAM DIMM connectors
- Communication Network Riser (CNR) connector
- DVO connector for flat panel support

Product Description

The Intel® 815E Scalable Performance Board Development Kit is a physical kit consisting of an evaluation board, technical documentation and demonstration software for applied computing applications. The development kit supports Pentium III processors (0.18µ - .13µ process) and Intel Celeron processors (0.18µ - .13µ process) in a 370-pin FC-PGA or FC-PGA2 package. The board includes a processor side bus that automatically scales from 66 MHz to 133 MHz based on the processor used. With the kit, customers are able to develop a scalable board both in terms of processor and graphics performance. Graphics scalability includes utilizing the native internal graphics capabilities provided with the 815E chipset, use of a dedicated display cache (GPA- Graphics Performance Accelerator), or use of a separate AGP card.

Product Description

The Intel 815E Scalable Performance Board Development Kit enables developers to design a single board that can be populated at build time with any of the Pentium III or Celeron processors in an FC-PGA or FC-PGA2 package, providing developers with a wide range of price and performance options, reducing the design and validation effort for multiple designs, lowering the total cost of ownership by reducing warehouse inventory and manufacturing costs, and providing faster time to market.

BIOS

(Please refer to user's guide for validated software at time of product release.)

General Software's Embedded BIOS*

Intel Applied Computing System Firmware Library

Operating System Support:

- Boots Windows95/NT*, from disk
- Boots DOS from disk or ROM
- Boots RT kernels, real or protected mode

Development Kit Ordering Information

Product

Intel 815E Scalable Performance Board Development Kit
Chrontel DVO card

EIDP3815BDEVKIT (Pentium III processor version)
CHRONTELDVOCARD

Intel Access

Developer's Site	developer.intel.com
Embedded Intel® Architecture Development Kits	developer.intel.com/design/intarch/devkits
Other Intel Support:	developer.intel.com/design/litcentr
Intel Literature Center	(800) 548-4725 7 a.m. to 7 p.m. CST (U.S. and Canada) International locations please contact your local sales office.
General Information Hotline	(800) 628-8686 or (916) 356-3104 5 a.m. to 5 p.m. PST

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Designers must not rely on the absence or characteristics of any features or instructions marked "reserved" or "undefined." Intel reserves these for future definition and shall have no responsibility whatsoever for conflicts or incompatibilities arising from future changes to them.

The Intel® Applied Computing Development Kits are offered for evaluation and reference only. The board and processor may contain design defects or errors known as errata which may cause the product to deviate from published specifications. Current characterized errata are available upon request.

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For more information, visit the Intel Web site at: developer.intel.com



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Software Overview

In order to provide customers with a complete development environment, Intel worked with various Independent Software Vendors (ISV) to provide supporting evaluation software for the development kits. The software applications in the kit are demonstration copies provided free of charge by the vendors. The software is licensed for evaluation purposes only. Software in the kit is subject to change without notice. Refer to the Intel 815E Scalable Performance Board Development Kit Web page for the latest information at:
developer.intel.com/design/intarch/devkits/273412.htm

Evaluation Software

- LinuxWorks* BlueCat* Linux
- Wind River* Tornado* 2.0 VxWorks*
- CAD-UL Integrated Development Tool Suite